

SAPC 6388
Copy No. 3 of 9

21 May 1956

MEMORANDUM FOR: Remo-Wooldridge, Inc.
THROUGH : Project Director
SUBJECT : Sensitivity Data - System One

25X1A
1. On the basis of data supplied in GMCC Doc. No. 166X5.1 as enclosed with your letter GMCC Doc. No. 151X5.86 and data supplied by [REDACTED] by phone on 16 May, I obtain the following results by calculation:

a.

b.

25X1D
In determining overall sensitivities, all energy incident to face of the antenna was used as the system input.

2. The antenna loss at S-Band is well within expected losses. I feel the X-Band antenna loss is unduly high. The overall sensitivity of the system at both S and X-Band is considerably lower than that for the usual receiver of this type. Methods to raise this sensitivity into the range of [REDACTED] dbm are under consideration.

25X1D
3. The S- and X-Band system sensitivities versus frequency is plotted and attached for your information. R.F. filters to limit the response to a narrower frequency band are desirable. This will be discussed on my next visit.

25X1A
[REDACTED]

Distribution:

Copies 1 & 2 - R-W

3 - Project Director (Attn: [REDACTED])

4 - [REDACTED]

5 - [REDACTED]

6 - [REDACTED]

8 - Project Chrono

9 - Daily Reading

25X1A

25X1A